

What is claimed:

1. An apparatus for producing a substrate for plasma display panel comprising a plate and ribs provided on the plate, which comprises:

a table for the plate,

5 a rib precursor supplying portion for providing a precursor of the ribs on the plate,
a pliable mold having at least groove portions provided in parallel with each other at a fixed distance, which is disposed on the precursor of the ribs provided on the plate,

a mold pressing portion for applying a pressure to the mold, thereby to contact the mold closely with the plate via the precursor of the ribs, and

10 a driving portion for moving the mold pressing portion along the groove portions of the mold.

2. The apparatus according to claim 1, wherein the driving portion comprises a pair of linear guides provided in parallel with the groove portions of the mold, which is interposed between the linear guides, and the mold pressing portion is movable along the
15 linear guide.

3. The apparatus according to claim 2, wherein the mold pressing portion is a lamination roller and the driving portion further comprises:

at least one second linear guide disposed in parallel with a pair of linear guides at the exterior of the linear guides,

20 a rotary motor provided movably on the second linear guide, and

a coupling for connecting a rotating shaft of the rotary motor with that of the lamination roller.

4. A mold for use in the production of a substrate for plasma display panel, which is subjected to antistatic finish.

25 5. The mold according to claim 4, wherein the antistatic finish is conducted by imparting ionic conductivity.

6. A mold for use in the production of a substrate for plasma display panel, comprising:

an acrylic base material,

30 an ionic conductive substance dispersed in the acrylic base material, and

a medium which is dispersed, thereby making it possible to ionize the ionic conductive substance.

7. The mold according to claim 6, wherein the acrylic base material is made of a cured article of urethane acrylate, polyester acrylate or polyether acrylate and has pliability.

5 8. The mold according to claim 6 or 7, wherein the medium is propylene carbonate, ethylene glycol or lactone, or a derivative thereof.

9. The mold according to any one of claims 6 to 8, wherein the ionic conductive substance is lithium perchlorate.

10. A method of producing a substrate for plasma display panel comprising a plate and ribs provided on the plate,

10 (A) which comprises the steps of:

a rib precursor supplying step of providing a precursor of the ribs on the plate,

15 a rib precursor filling step of filling a pliable and antistatically treated mold having at least groove portions provided in parallel with each other at a fixed distance, with the rib precursor,

a rib precursor molding step of curing the rib precursor to form a molded article, and

a rib molded article transferring step of removing the mold and transferring the molded article to the plate, and

20 (B) in which:

the mold is pressed along the groove portions from one end to the other end of the groove portions provided thereon in the rib precursor filling step.